

Abstract of the Disclosure

Catheter for use in biliary procedures, including a shaft having a proximal end and a distal end. A guidewire lumen is carried by the shaft extending from a location proximal the distal end of the shaft to a location proximate the distal end of the shaft. An opening is included for accessing the guidewire lumen from a location exterior the catheter shaft located distal the proximal end of the shaft. The guidewire lumen may be formed integral the catheter shaft. The catheter may be used in rapid exchange catheter procedures. The catheter may further include a port and channel design including a first opening into the guidewire lumen located proximal the distal end of the shaft, a second opening located proximal the first opening, and a channel extending longitudinally between the first opening and the second opening.

**CERTIFICATE UNDER 37 C.F.R. 1.10:** The undersigned hereby certified that this paper or papers, as described herein are being deposited in the United States Postal Service, "Express Mail Post Office to Addressee" having an Express Mail mailing label number of: EV 315613705 US, in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 14th day of March 2004.

By Kathleen L. Boekley  
Kathleen L. Boekley